USB 2.0 Keyboard/Video/Mouse Sharing Switch

User's Manual

SV431USB
SV231USB

HOME | CABLES | NETWORKING | PARTS | STRUCTURED WIRING | KVM/VIDEO SWITCHES | SERVER RACKS | INTERNET SOFTWARE
ISO 9001
StarTech.com

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Please read this manual thoroughly and follow the **Installation** procedures to prevent damage to the StarView or any connecting devices.

Introduction

Overview

The StarView SV231USB and SV431USB, fully compatible with USB 2.0 specifications, are a combination of USB 2.0 KVM (Keyboard/Video/Mouse) switches and USB 2.0 peripherals sharing devices. With the SV231USB and SV431USB, you can easily operate up to 2 or 4 PCs, G3/G4 Macs, or iMacs respectively from the 1 USB keyboard, 1 USB mouse, and 1 monitor saving you space, time, equipment and money. Its peripheral sharing function enables you to share more USB 2.0 peripherals among all computers.

Installation is easy as connecting USB A-B cables to the computers and to the StarView switch. Computer selecting is as easy as front panel button pressing. The built-in USB hub ensures smooth switching from one computer to the other. The StarView switches provide the easiest way to manage multiple computers with USB interface and share USB peripherals among computers.

Features

- Manage 2 or 4 PC, G3/G4 Macs, or iMacs from one USB 2.0 keyboard, mouse and monitor with the SV231USB and the SV431USB respectively
- 2 or 4 computers share up to 2 or 4 different USB 2.0 peripherals with the SV231USB and the SV431USB
- Front panel push buttons for easy computer selection
- No drivers needed for keyboard and mouse operation
- Supports keyboard and mouse plug-n-play
- High VGA resolution: 19230 x 1440

- Buzzer sounds for computer switching confirmation
- Front button Auto Scan activation
- Selectable Scan Time interval
- Supports the latest DDC2B VGA monitors
- Saves time, space, equipment and power
- USB self-powered operation
- No software required

Package Contents

1x StarView USB KVM Switch
1 x Manual
1 x Power Adapter (only SV231USB)
2 x 2 IN 1 USB/MONITOR cables (only SV231USB)

System Requirements

Console Side

One VGA, SVGA or Multisync monitor
One USB 2.0 keyboard
One USB 2.0 mouse

Computer Side

Each USB 2.0 enabled computer must be connected to the StarView switch by:
One HDB15 male-to-female VGA cable or monitor
One USB 2.0 A-B cable with Type-A and Type-B plug for USB devices, as shown in figure 1.

figure 1: USB 2.0 A-B cable

(Note: An optional HDB-15 to DB-15 VGA adapter is required for Mac computer VGA ports)

Installation

PC BIOS Notice

The following BIOS setup changes are necessary for PC users and not necessary for Mac users:

1. In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD
2. 2. In PNP and PCI SETUP, set PNP OS ONSTALLED to YES and set USB IRQ to ENABLED

Note: The StarView switch is applicable for USB 2.0 keyboard and mouse switching from one computer to the other. If you plan to share other peripherals such as a CCD camera, printer or scanner, it is necessary to shut down the driver of the computer before switching to another computer. Because port switching is equivalent to unplugging the USB cable from one computer and plugging it into another one, some USB drivers check attached USB peripherals all the time and do not accept plug-n-play functions.

Console Connection

Before installation, make sure all devices and computers to be connected to the StarView switch have been turned off.

Plug a monitor to the Console's VGA port; plug a USB 2.0 keyboard and a USB 2.0 mouse Console's USB ports as shown in figure 2.

For SV431USB only: As an option, the Master StarView is either SV431 or SV431D to be linked to the SV431USB with a mini-DIN8 male-to-male cable. The SV431USB can operate as USB 2.0 peripheral sharing devices

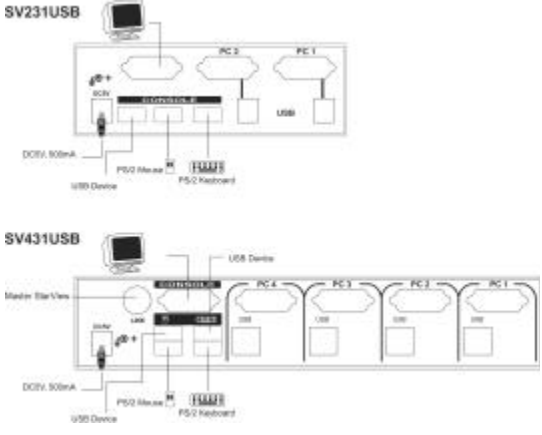


Figure 2: Console Connection

Computer Connection

Use a HDB15 male-to-female cable to connect from a computer's VGA port to the StarView's VGA port of the **PC** side, as shown in figure 3.

Use a USB 2.0 A-B cable to connect from the StarView's **USB 2.0** port on the corresponding computer (A connector is the flat connector) as shown in figure 3.

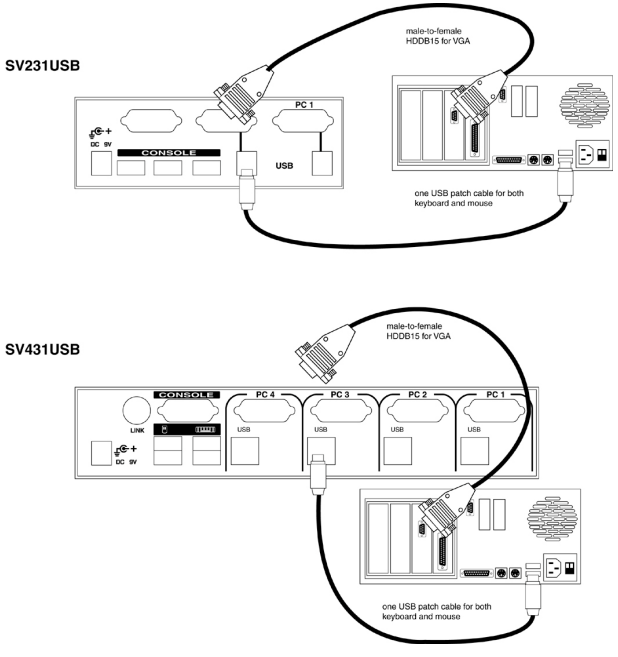


Figure 3: Computer Connection

Operations

Front Panel

1. On-line LED and Selected LED:
   When the LED turns green, the connected computer is powered-on. When a computer is selected its corresponding red LED illuminates.
2. Push buttons:
   Each computer has a button associated with it on the front panel for selection.

Auto Scan

Auto Scan automatically cans through computers one by one in a fixed interval (see *Scan Time* below).

Note: keyboard or mouse is not operable during Auto Scan.

Scan Time

It sets the scan interval for *Auto Scan.* The Scan Time options are 3, 8, 15 and 30 seconds.

Note: Scan Time is automatically set to the default of 3 seconds when the KAG switch loses power.

For SV231USB

To activate the *Auto Scan*, press and hold the pushbutton down for 2 seconds until you hear a long beep followed by a short beep. To exit from it, tap the pushbutton again.

To change the *Scan Time* interval, press and hold the pushbutton for 4 seconds until you hear two long beeps. By tapping the pushbutton each time, the SV231USB responds with 1, 2, 3 or 4 beeps corresponding to 3, 8, 15 or 30 seconds respectively. Once set, leave the SV231USB as it is and it will automatically return for normal operation.

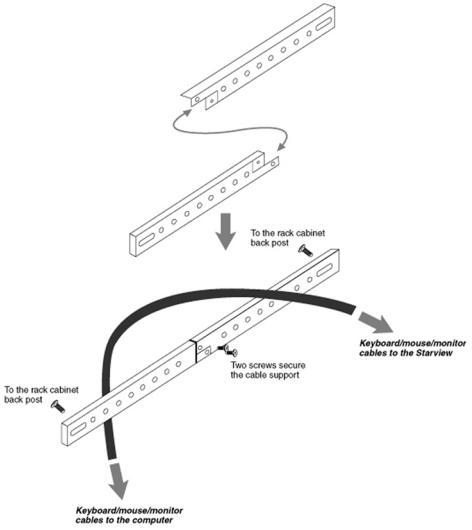
For SV431USB

To activate *Auto Scan*, press down front panel push buttons “3” and “4” simultaneously. The port LED flashes during *Auto Scan. Auto Scan* is effective for powered-on computers only. To exit the *Auto Scan* mode, just tap any one of the pushbuttons.

To change the *Scan Time* interval, press both front panel buttons “1” and “2” simultaneously. The Sv431USB beeps 1, 2, 3 or 4 times for *Scan Time* of 3, 8, 15 or 30 seconds respectively.

Rack Mount Kit for SV431USB (optional)

The figure below shows how to attach optional mounting brackets and cable support to the SV431USB for standard 19-inch rack cabinet.


To the rack cabinet back post
Keyboard/mouse/monitor cables to the Starview
Two screws secure the cable support
To the rack cabinet back post
Keyboard/mouse/monitor cables to the computer

Appendices

Specifications

	SV431USB	SV231USB
No. of computers supported	*4*	*2*
Front panel push button	*4*	*1*
Hot plug-and-play	*Yes*	
Automatic scan interval	*3, 8, 15, 30 seconds*	
Cable Length (Max)	*30M (100ft) for VGA* *5M (15ft) for USB*	
Computer ON-LINE LED	*4*	*2*
Computer Selected LED	*4*	*2*
VGA	*1920 x 1440, DDC2B*	
Computer peripheral connector Monitor	*USB Type Bx4* *HDB-15 male x 4*	*USB Type Bx4* *HDB-15 male x4*
Console peripheral connector Monitor	*USB Type Ax4* *HDB-15* *female x 1*	*USB Type Ax3* *HDB-15* *female x1*
H x W x D (mm) (in) size	*44 x 220 x 130* *1.7 x 8.7 x 5.1* *Compact*	*40 x 124 x 70* *1.6 x 4.9 x 2.7* *Micro*
Weight (g) (oz.)	*900* *31.74*	*420* *14.8*

Troubleshooting

Ensure that all cables are well seated. Label the cable for each computer to avoid confusion when connected to the StarView switch.

The StarView switch has built-in power protection that works automatically when needed. When it works, USB communication halts and the only way to restart the StarView switch properly is to remove all power sources (USB patch cables and power adapter), wait a few seconds, apply power sources and start again.

Symptom	***Causes***	***Solutions***
Keyboard or mouse does not work	In Auto Scan, keyboard and mouse are not operable. Too many keyboard or mouse drivers installed.	Press any front button to select a computer, then use the keyboard and mouse. Remove ALL unnecessary keyboard and mouse drivers.
Newly installed USB device does not work.	Improper device driver. Device consumes too much power. Device consumes too much power instantaneously. Improper device	Re-install device driver. The device should be self-powered, add a power adapter to the device. If the device does not provide power jack, add a power adapter of less

	initialization. When StarView switch works under self-power, i.e., no power supply added, it supports max of 100mA as per USB spec.	than 1A current rating to the StarView switch Be sure the USB cable is well seated to ensure communication. Remove all power sources to the StarView by unplugging all USB A-B cables and the power adapter; then start all over again. Select the computer by pushbutton, restart the computer and try again.
Computer hangs up while switching computers.	Device initialization takes too much time.	Wait at least 5 seconds before computer switching to ensure proper USB communication. Turn off device driver (not keyboard or mouse) before computer switching.
Auto Scan does not switch PC automatically and StarView beeps.	All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.	Turn computers on.

Other StarView Switches

Other high-performance StarView KVM switches

	No OSD	OSD model	2 Console – OSD Model
2 **port**	SV211K SV231		
4 port	SV431 SV431H	SV431D	
8 port	SV831	SV831D	SV832D
16 port		SV1631D	SV1632D

-OSD: advanced On-Screen Display interface enabling you to assign PC names, access PCs by the names. Other features include programmable scan pattern, password security, etc.

Limited Warranty

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